1,000—

CURRENT FILE.

Stock Form No. 141
10,000—29-6-05.

PAGE 1

PUBLIC WORKS DEPARTMENT.

CURRENT No. 3445

Received 28. 6. 1906.

ENCLOSURES. Plans No. / Others No. / Total

Registered 4. 7. 1906.

SPARE COPIES.

Passed on by Registering Clerk ...
" " U. R. Clerk ...
" " Referencer ...
" " Record Superintendent.
" " Drafting Officer ...

Subject.

New steamer for Periyar Lake — Applies for a —

No. 362 CE

Station, Trichinopoly. *Dated the* 25th June 1906.

From (Name) S. D. MURRAY Esquire.,

(Designation) Superintending Engineer, VI Circle.

To *The Chief Engineer* for Irrigation, / *The Secretary* *to the Government of Madras,*

Public Works Department.

Sir,

I have the honour to report to you that during my recent inspection of the Periyar Works, I came to the conclusion that a new steamer is very necessary on the Lake, and from enquiries I made, as well as from what I saw myself, I realise that the work now in progress at the Right Bank Escape has been, and will be, very much hindered owing to the inadequate means of transport available.

Papers urgent

2. The Periyar Lake Fleet consists of two steamers, the "Daisy" and the "Resurrection". The former dates back to the early days of the Project Works, and she has

PAGE 2

been an excellent boat in her day. Now however her hull has entirely perished, and she cannot float. She is out of the water, and her hull is being sheathed with teak - planks, but this obviously is only a makeshift, and even if she were re-hulled another steamer would be required. The second steamer- the "Resurrection"-is rightly named, and she is now only fit to be scrapped. Under favourable circumstances she can, for a time, keep up a speed of 4 miles an hour, and against a strong breeze, as I know - from personal experience, she cannot even make head-way.

3. Up till now the safety of the Periyar Lake has been entirely dependent upon unalterable provisions, viz., the capability of the Right Bank Escape to dispose of all - surplus water. Now however that this escape is to be - fitted with lifting shutters, which will hold up Lake - level to a further height of 3 feet, the conditions as - regards the safety of the Lake are completely altered. The safety of the dam may depend upon the timely working of these shutters. The Head Quarters of the Lake Superintendent are at Thekadi, as his chief work is the regulation of the discharge through the tunnel, but with an - increased Lake level, and shutters to be worked at the escape, it will be necessary for him to live at Periyar, and I have ordered quarters to be built for him there. There is no road between Thekadi and Periyar, so communication must be by water. It is therefore essential - that we have a good steamer on the Lake, and that Periyar and Thekadi be connected with Kumili Post Office - which is about 1¼ miles from Thekadi - by means of a -- telephone. About this last point I am writing separately.

4. I give below a specification, so far as I am able - to prepare one, for a steamer which I think would be -- suitable for the work which will be required of her.

Length.	... ...	50 feet.
Breadth.	... ...	9 feet.
Draught loaded midship.		4 feet.

PAGE 3

Freeboard midship. ... ... 3 feet. Gangway - 1½ ft. clear on both sides.

Hull.- Either galvanised steel, or teak wood, copper sheathed up to water line, whichever is considered the more lasting.

Engines.- Compound, triple expansion.

Boiler.-Multitubular, to burn wood, with at least 5 tubes stayed.

Speed.- 10 miles an hour free, and 7 when towing a load of 35 tons. The steamer will be used entirely in fresh water, from which her - boiler can be fed, and she should have sufficient bunker accommodation to carry wood for 10 hours steaming.

Accommodation.- None for crew. A well cabin forward, right up to the bow, for officers, with folding venetians on both -- sides, and in front. The steering wheel to be aft of the cabin, and the steersman to look out over the cabin roof. The steering cabin to be enclosed, with a sliding -- glass partition in front, and to be fitted with a speaking tube to the driver.

5. An addition to the existing establishment will be necessary when the Right Bank Escape Shutters have been fitted, and I have called upon the Executive Engineer - Madura to submit a Proposition statement shewing his requirements. This will be forwarded to you with my remarks, when received.

R 6. Since writing the above letter I have seen G.O.No. 157-I, dated 5th February 1906, and the papers connected therewith. I am still of opinion that a good reliable launch is an absolute necessity on the Periyar Lake, and I now send you this letter with reference to para 3 of

D G.O.No.12-I, dated 5th January 1906.

I have the honour to be,

Sir,

Your most obedient servant,

[signature]

Superintending Engineer,

VI Circle.

[illegible] 27/6

PAGE 52

2. In para 2 of your memo. number 1597 dated 29th ultimo, it was stated that the question of the source from which the new launche was to be obtained would be settled in your office but no information has been supplied to show in what stage exactly the matter rests. As the Executive Engineer Madura Division considers that arrangements should be made to have the launch built this year and I quite agree with him and request that the matter may be expedited.

I have the honour to be,
Sir,
Your most obedient Servant,

C. W. Wood
Superintending Engineer,
VI Circle.

18. 6/07

PAGE 4

P. W. D. Irrigation.

No 2491
14 7 06

Memorandum

Reference : Letter from the Supg Engineer VI Circle, No. 362 C.E. dated 25th June 1906

The Chief Engineer for Irrgn does not consider that the Supg. Engr has made out a case for a new launch for use on the Periyar. The Superintendent will as stated by the Supg. Engr, have to live at ~~Thekady~~ Periyar at any rate during the flood season and a sufficiently reliable man will have to live at Thekady for the sluice regulation.

2. The full establishment required for working the Periyar right bank escape shutter will also have to live at Periyar and all necessary tools and machinery for dealing with a possible breakdown of shutter must be kept there quite independent of similar gear required for the Thekady sluice.

3. The distance from Periyar to Thekady when lake is full, is only 6 miles and ~~so long as the~~ the undersigned considers that so long as the "Resurrection" is in fair working order, she can get there sufficiently quickly for all practical purposes.

10/7/06

DESPATCHED
DATE 14.7.1906
ENCLOS.

To the Supg. Engineer
VI Circle

5

Stock Form No. 141
10,000—29-6-06.

PUBLIC WORKS DEPARTMENT.

CURRENT No. 4124

ENCLOSURES. { Plans No. / Others No.

Total

SPARE COPIES.

Received 31. 7. 1906.
Registered 2. 8. 1906.

Passed on by Registering Clerk ...
,, ,, U. R. Clerk ...
,, ,, Referencer ...
,, ,, Record Superintendent.
,, ,, Drafting Officer ...

Subject.

The steam launch "Resurrection" — Requests that Mr. H. B. Pierce Supdt. of the P.W. Shops may thoroughly examine — as she cannot be described to be in fair working order —

No. 434 C.E.

Station, Trichinopoly. *Dated the* 26th July 1906.

From (Name) S. B. MURRAY Esquire.,

(Designation) Superintending Engineer, VI Circle.

To *The Chief Engineer* for Irrigation, ~~*The Secretary*~~ *to the Government of Madras,*

Public Works Department.

Sir,

P-409 C-f Papers urgent H. 31/7.

With reference to para 5 of your Memo.No.2491 dated 14th July 1906, I have the honour to request your permission to have a survey made of the "Resurrection" as, in my opinion, she cannot rightly be described to be "in fair working order."

2. Since drafting the above letter, I have learnt that Mr.H.B.Peirce, Superintendent of the P.W.Shops will be at the Periyar next month, and this would be an excellent opportunity to have the steamer thoroughly examined.

I have the honour to be,
Sir,
Your most obedient servant,
S. B. Murray
Suptg:Engineer, VI Circle.

13/4866

PAGE 6

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

No. 2907
9.8.06

DESPATCHED
DATE 9.8.1906
ENCLOS.................

Memorandum.

With reference to his letter No 434 C.E. d. 26.7.06 the ~~Supg Engr~~ VI Circle, is informed ~~that~~ the "Resurrection" may be ~~examined~~ surveyed by the Gen Supdt P. Workshops as proposed by him and the result reported in due course.

TMHS.
7/8/06.

CHS
7/8/06

To
The SE VI Circle
To Gen Supdt (with Copy of SE's letter No 434 CE d 26.7.06)

MSE
7.8.06

St[illegible] Form No. 141
2[illegible]00—14-5-06.

PAGE 7

PUBLIC WORKS DEPARTMENT.

Irrigation Branch.

Current No. 5315

ENCLOSURES. { Plans No. / Others No.

Total

Received } ......190 .

Registered } 19-9-1906.

Passed on by Registering Clerk ...

" " U. R. Clerk ...

" " Record-keeper ...

" " Drafting Officer ...

SPARE COPIES.

Subject.

Steam Launch Resurrection Reports on the —— while at Periyar

No. W/16 E 9

Station Madras, *Dated the* 17—9—1906

From (Name)

(Designation) General Superintendent P.W. Workshops

To The Chief Engineer / The Joint Secretary *to the Government of Madras,*

Public Works Department,

Irrigation Branch.

Sir,

N.B.—In any future communication on this subject, the number and date of this letter should be quoted.

PAGE 8

Form No. S. 3.
200—16-2-06.

No. W./16 E. 9

PRESIDENCY PUBLIC WORKS WORKSHOPS,
"Mint Post Office,"
Madras, 17th September 1906.

From

H. B. PEIRCE, Esq.,
GENERAL SUPERINTENDENT,
PUBLIC WORKS WORKSHOPS,

To

THE Chief Engineer
for Irrigation.

SIR,

Page 6 of c.f.

Enclosures.

With reference to your Memo No. 2907 dated 9th August 1906, I have the honour to state that I surveyed the Steam Launch "Resurrection" when I was at Periyar and to report as follows:-

The Boiler was designed to burn coal, but as wood is used as fuel, there is an insufficiency of steam resulting in a drop of speed. I also examined the Boiler and found that both tube plates were ~~coneded~~ corroded and consequently considerably diminished in thickness and the crown plate is badly bulged. Hence it is not advisable to use the Boiler any longer as it is unsafe and a new boiler - should at once be fitted in its place. The Engine is in fair order and will with a few repairs last a few years longer. As regards the hull, this is generally in a - workable condition, but it appears to me to have been put together very roughly after it was despatched from these shops. I believe it was erected by some local carpenters and the Sluice Superintendent at Thekady. Had the work

of

PAGE 9

of erecting it at site been entrusted to these shops I think they would have put it together in a more workmanlike manner. The stern portion over the rudder requires modifying which may be done when the new boiler is being fitted, if sanctioned, the hole for the rudder post should be made a neat fit and lined with brass bushes top and bottom to prevent wear.

Considering that the machinery was obtained during the Periyar Project Works and that the launch (Helen) was used a good deal, (so much so that the hull was riddled with holes and sold for a few rupees when it arrived at Madras), I think that fair wear and tear has been allowed in this case, and in my opinion the Launch "Resurrection" should be replaced with a new launch. A suitable launch will be like the one recommended by my predecessor in his No. W/53 E. I. dated 27-2-'05. The present engine may possibly be utilized at site for another purpose which I am reporting to the Superintending Engineer, 6th Circle upon, and the hull used as a barge for carrying materials.

I have the honour tobe,

Sir,

Your most obedient servant,

F. B. Peirce 17/9/06

General Superintendent,

P. W. Workshops.

7/9/06 8

Bn 17.9.06.

PAGE 10

Public Works Department,
V Circle.

PUBLIC WORKS WORKSHOPS.

From
H. B. Peirce Esquire
GENERAL SUPERINTENDENT,
PUBLIC WORKS WORKSHOPS,
Madras.

To
THE Chief Engineer
for Irrigation
Chepauk

No. W./16 E. 9

Dated 17th
Despatched 17th } September 1906
Received

No. OF ENCLOSURES.
Nil

CHIEF ENGINEER
FOR IRRIGATION
19 SEP 1906
5315
No.

Subject.

Reports about the Survey of the Steam Launch "Resurrection" while at Periyar.

PAGE 11

No 3712
8. 10 06

Memo.

In continuation of this office memo No.2907 dated 9th August 1906, the Chief Engr. for Irrign. has the honour to forward to the Supg Engineer VI Circl a copy of letter from the General -- Supdt. P.W. Shops, reporting the result of the survey of the steam launch -- "Resurrection" and to request that the Supg Engineer will be good enough to expedite the submission of the report with reference to the concluding portion of the General Superintendent's letter

~~2. The General Superintendent's -- inspection of the boiler however shows it to be unsafe. It does not seem worth while renewing it and the boiler of the "Daisy" will only last two years and that only with care as reported by the Inspector of steam boiler in his inspection notes forwarded with the Supg Engineer's letter No.644 C.E. -- dated 26th September 1905. The Chief Engineer therefore considers it better to get a new launch for the work on the project.~~

DESPATCHED
DATE 8. 10. 1906
ENCLOS. 1.

pb cf.

Np 8-9 cf.

Em 1

E.g.
I don't know whether para 2 should go
K.V.

Z

2/10/06.

To the Supg Engr. VI Circle.

2/10/06

Stock Form No. 141
10,000 – 29-6-05.

PUBLIC WORKS DEPARTMENT.

CURRENT No. 6062

ENCLOSURES. { Plans No.
Others No. 1

Total

SPARE COPIES.

Received .... 190 .
Registered 15-10-1906.

Passed on by Registering Clerk ...
" " U. R. Clerk ...
" " Referencer ...
" " Record Superintendent.
" " Drafting Officer ...

SECRETARY TO GOVERNMENT
12 OCT. 1906
REVENUE DEPARTMENT

Subject

Periyar Head Sluice Shutters — Fwg. Copy of (P.W. workshops) Ch. Supdt.'s Letter regarding — & stating that the Exec. Engr. Madura Dn. has been ordered to attend to his instructions & ~~[illegible]~~ [illegible] orders as to the steam launch Reconstruction, that the Supdt. has been asked not to sell the lathe required for the Thekadi sluice

Supdt. for the workshop

No. 587 CR

Station Trichinopoly Dated the 10th/October 1906.

From (Name) S. B. Murray Esq.

(Designation) Supg. Engineer VI Circle

To The Chief Engineer for Irrigation
The Joint Secretary to the Government of Madras,

Public Works Department.

Sir,

Papers urgent.
[initials]
12/10

Spm
R.K. Papers

[illegible]

[illegible] 16/10/06

No. 587 CR

Office of the Superintending Engineer,
6th Circle,
Trichinopoly, 10th October 1906.

From

S. B. M U R R A Y Esquire.,
Superintending Engineer, VI Circle,
Trichinopoly.

CHIEF ENGINEER FOR IRRIGATION
15.
6062

To

The Chief Engineer for Irrigation,
M A D R A S.

Enclosure:-1.

Sir,

With reference to the enclosed copy of a letter I have received from the General Superintendent of the -- Public Works Shops Madras, I have the honour to inform you that I have ordered the Executive Engineer Madura - Division to carry out the suggestion made in para 1.

I think Mr. Peirce's second proposal is a very sound one as there is always a certain amount of fitting work to be done at the Periyar Head Works, and the Sluice -- Superintendent there is very much handicapped with the few appliances he now has. As however the proposal is dependent upon your decision as to what is to be done - with the "Resurrection" I leave the matter, and the question of lathe, mentioned in the last para, to you to -- pass orders on. Pending the receipt of these orders I have asked the General Superintendent not to sell the - lathe.

I have the honour to be,
Sir,
Your most obedient servant,

S B Murray
Superintending Engineer,
VI Circle.

9.10.06

14

Copy of letter No.W/6.S.E.VI, dated Madras, 2nd -- October 1906, from H.B.PEARCE, Esquire., General Superintendent, Public Works Workshops, to the Superintending Engineer, VI Circle.

With reference to my recent visit to the Periyar - I have the honour to suggest that as the level of the - lake is to be raised it would be advisable to fix some form of guides to the counterweights box of the head -- sluice shutter, to keep it from swinging in the current against the chains and screw shaft of the shutter. The girders could be easily made by fixing brackets to the counterweight box with sleeves at the ends to fit loosely round the lift chains of the shutter.

I would also propose that the Superintendent should be supplied with a small lathe, a drilling machine, and a grindstone to be erected in some convenient shed, as a workshop for repair purposes. The engine of the "Resurrection" could be used to drive these machines from one shaft if the launch is condemned. A small vertical boiler could be supplied to drive the engine.

I may mention that some of the old machines I have in the machine shop here would be quite suitable. There is one screw cutting lathe at present for sale which would be very suitable for repair work, the value of which is put down at Rs.380 in G.O.No.3030-W, dated 15th October 1904. Messrs.Oakes and Co., have offered Rs.200 for it but if you prefer that I should keep it for the Periyar I will write and refuse their offer on hearing from you. I request however that I may be informed at an early date.

(Signed)

Suptg: Engineer, VI Circle.

5-6062

T

9.10.06

Stock Form No. 141
10,000—29-6-05.

PUBLIC WORKS DEPARTMENT.

PAGE 15

CURRENT No. 6158

ENCLOSURES. { Plans No.
Others No.
Total

SPARE COPIES.

Received 190 .
Registered 18-10-06

Passed on by Registering Clerk ...
,, ,, U. R. Clerk ...
,, ,, Referencer ...
,, ,, Record Superintendent.
,, ,, Drafting Officer ...

Subject

Replacing the old Launch "Resurrection" with a new one etc.: Asking to refer to S.E.'s letter no 587 C.E. of 10th October 06 for :—

No. 594 C.E.

Station, Trichinopoly. *Dated the* 12th October 1906.

From (Name) S. B. Murray Esquire.,

(Designation) Superintending Engineer, VI Circle.

To *The Chief Engineer* for Irrigation ~~*The Secretary*~~ *to the Government of Madras,*

Public Works Department.

papers urgent

Sir,

P. 11 9 C-f With reference to your memo. no. 3712 dated 8th October 1906, I have the honour to refer you to my letter No 587-C.E., dated 10th October 1906.

15/10

P. 13 9 C-f

I have the honour to be,
Sir,
Your most obedient Servant,

S B Murray
Superintending Engineer,
VI Circle.

19/10/06

CHIEF ENGINEER
FOR IRRIGATION.
18 OCT 1908
6158

PAGE 16

No 4016
26-10-06

Memo.

With reference to correspondence ending with his letter No.594 C.E., dated 12th October 1906 the Supg. Engineer, VI Circle, is informed that his proposal to obtain a new steam launch and also to utilize the engine of the "Resurrection" for a repair shop at Periyar is approved. The necessary estimate for the new launch will be prepared in this office, but for the Repair shop and for the counterweight guides of the Head sluice, the Supg. Engineer is requested to prepare and submit an estimate in consultation with the General Superintendent, P.W. Workshops, Madras.

2. The lathe referred to in the concluding portion of the General Superintendent's letter may be obtained from the Workshops for the proposed Repair shop.

25/10/06.

To

The Supg.Engr.VI Circle.

Copy to the General Superintendent,

P.W.Workshops.

23.10.06.

No 4244
6-11-06

17

To

The Director,

R.I.M Dockyard,

~~Calcutta~~
Bombay.

DESPATCHED
DATE 6.11.1906
ENCLOS. 1

Sir,

I am directed to forward a rough specification of a steam launch required for use on the Periyar lake - in the Madura District, chiefly for purposes of inspection, and to request that you will be so good as to state ~~within what time~~ whether you can supply a launch -- complying with the specification and, if so, to forward a design and an estimate as early as possible. ~~The launch will have to be delivered at Tuticorin, the nearest sea port~~. It is requested that the time within which the launch can be supplied may be stated.

Removed original from 1070 & 71 & sent to 15-10-06 in Marine department

There are insufficient landing facilities at Tuticorin I think.
By rail all the way will be cheaper

5/11/06.

asw
3-11-06

PAGE 18

PUBLIC WORKS DEPARTMENT,
(Irrigation Branch).

Mem: No C. 4244 d 6-11-06

Specification
for
Launch for Periar lake

Length 50 feet.
Breadth 9 feet.
Draught not exceeding 5 feet.
Freeboard 3 feet
Gangway 1 1/2 feet clear on both sides
Hull Galvanised steel stoutly built.
Engines compound, ^(or) triple expansion
Boiler Multitubular to burn wood with at least fire tubes stayed, to be fed from the lake

accommodation, none for crew (as described by S.E).
bunker accommodation for wood for 10 hours steaming
Speed 10 miles an hour free, and 7 miles an hour towing a load of 35 tons

Hull scantlings — these may be similar to those provided in the design sent with the letter no 5350 of 21-9-06 of the Director Indian Marine Bombay increased if considered necessary on account of the extra weight of engine & boiler and the greater draft.

vide f.c. 10702 of 13-10-06 flagged XIX

~~K[illegible]~~

Stern. — The stern to be specially stayed for towing and special bollards fixed or other suitable arrangements made.

Launch to be supplied in sections — The launch is to be made in sections to be bolted together not rivetted no piece to weigh more than half a ton.

~~For safe[illegible] purposes 3/4 [illegible] may [illegible] calculate the freight~~

ZWtt
5/11/06

19A

Specification for Launch for Periyar Lake.

Length 50 feet.

Breadth 9 feet

Draught Not exceeding 5 feet

Free Board 3 feet

Gangway $1\frac{1}{2}$ feet clear on both sides.

Hull Galvanized steel stoutly built

Engines Compound triple expansion

Boiler Multitubular to burn wood, with at least five tubes stayed, to be fed from the lake.

Accommodation. - None for crew. A well cabin forward, right up to the bow, for officers, with folding venetians on both sides and in front. The steering wheel to be aft of the cabin, and the steersman to look out over the cabin roof. The steering cabin to be enclosed with a sliding glass partition in front and to be fitted with a speaking tube to the driver.

Bunker accommodation for wood for 10 hours steaming.

S p e e d. 10 miles an hour free and 7 miles an hour towing a load of 35 tons.

Hull Scantlings. The hull will be of galvanized steel of the best quality,

Bottom Plates 6 $\frac{3}{16}$" thick
Bilge and sides $\frac{1}{8}$" thick
B Frame $1\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{3}{16}$"
Frame $1\frac{1}{2}$ x $1\frac{1}{2}$ x $\frac{3}{16}$"
Bar keel 3" x $\frac{1}{2}$"
Keelson 3" x 3" x $\frac{5}{16}$"
Sister keelsons 3" x 3" x $\frac{3}{8}$"
F. Plate 6"

} To be increased if considered necessary. [illegible]

Stern. The stern to be specially stayed for towing and special bollards fixed or other suitable arrangements made.

Launch to be supplied in sections. The Launch is to be made in sections to be bolted together not rivetted, no piece to weigh more than half a ton.

for Chief Engineer for Irrigation.

Stock Form No. 141
10,000—29-6-05.

PUBLIC WORKS DEPARTMENT.

20

CURRENT No. 77"

ENCLOSURES. Plans No.
Others No.
Total ——

SPARE COPIES.

Received .... 190 .
Registered 14 · 12 1906.

Passed on by Registering Clerk ...
" " U. R. Clerk ...
" " Referencer ...
" " Record Superintendent.
" " Drafting Officer ...

Subject

New launch for the Periyar Lake:- Requesting to send the specification reg the —

No. 734 CR

Station. Trichinopoly. Dated the 12th December 1906.

From (Name) S. D. P E A R S, Esquire.,

(Designation) Superintending Engineer, VI Circle.

To The Chief Engineer for Irrigation, ~~The Secretary~~ to the Government of Madras,

Public Works Department.

Sir,

Urgent. P. 16 of C.f Papers

With reference to your Memo.No.4016 dated 26th October 1906, I have the honour to request that I may be allowed to see the specification which you propose for the new launch for the Periyar Lake.

14/12

I have the honour to be,

Sir,

Your most obedient servant,

S. D. Pears.

21

Stock Form No. 141.
2,000—5-11-06.

PUBLIC WORKS DEPARTMENT.

Irrigation Branch.

CURRENT No. 13

ENCLOSURES. Plans No. / Others No.

Total

SPARE COPIES.

W. Office to register & return with papers

Received .... 190 .

Registered 2-1-07 190 .

Passed on by Registering Clerk ...

" " U. R. Clerk ...

" " Record-keeper ...

" " Drafting Officer ...

Subject.

Steam Launch on the Periyar Lake

Furnishing certain informations re/ —

No. 9199.

Station Bombay, Dated the 27 Dec 1906

From (Name) Cap. W Chandler R.I.M.

(Designation) Offg. Dr of R.I.M.

To The Chief Engineer / The Joint Secretary to the Government of Madras,

Public Works Department,

Irrigation Branch.

Sir,

Urgent

Papers

Previous papers are with S.e.o.

S. 279—500—6-06.

22

[Form 1.

Heading ______________

It is requested that the above heading, with number and date of this communication, may be quoted in any subsequent correspondence on this subject.

No. 9199

R. I. M. DOCKYARD:

Bombay, 24 December 1906.

From

CAPTAIN W. CHANDLER, R. I. M.,

Offg. Director of the Royal Indian Marine;

To

THE SECRETARY TO THE GOVERNMENT OF MADRAS

PUBLIC WORKS (IRRIGATION) DEPARTMENT.

Sir,

Page 17 C file

17 c file.

With reference to your letter No. 4244 dated 6th November 1906, forwarding a rough specification of a Steam Launch required for use on the Periyar Lake for inspection purposes, I have the honour to inform you that the specification can be complied with in every particular but the last paragraph, and the difficulty regarding this occurs both in the matter of longitudinal strength and the limited weight the sections are restricted to, if it is taken to read as follows, viz., that the launch is to be made in sections to weigh not more than 10 cwts each and which are to be simply bolted together to complete the boat.

This view, however, may be altogether incorrect in view of the facts that the machinery (Engines and boiler) will need a compartment 18 ft. long, that the Engines alone would weigh close on 3 tons, and the boiler without water quite 4½ tons, for which something more than an abrupt bolt connection would be neessary to support these local weights and distribute

the

the strains set up by them in an ordinary shaped boat of 9 feet beam and about 8 feet deep on a draught of about 5 feet.

I have the honour to be,

Sir,

Your Obedient Servant,

(Signed)

Offg: Director of the Royal Indian Marine.

24

Stock Form No. 141.
2,000—6-11-06.

PUBLIC WORKS DEPARTMENT.

Irrigation Branch.

CURRENT No. 18

ENCLOSURES. Plans No. 1
Others No.
Total

Received .... 190 .
Registered .... 190 .
Passed on by Registering Clerk 2-1-07
" " U. R. Clerk
" " Record-keeper
" " Drafting Officer

SPARE COPIES.

W Office Inspector Return with registry
[illegible] 26-12-06

Subject.

A Sketch of a Launch for Periyar Lake.
Forwarding a —

No. 4487

Station Calcutta, Dated the 22 / Dec 1906.

From (Name) Captain F. H. Elderton D.S.O. R.I.M.
(Designation) Offg Dy Dr of the R.I.M.

To The Chief Engineer / The Joint Secretary to the Government of Madras,
Public Works Department,
Irrigation Branch.

Sir,

Inspt SCB

25

No. 4487

R. I. M. DOCKYARD,

Calcutta, 22nd December 1906.

FROM

CAPTAIN, F.H.ELDERTON, D.S.O., R.I.M.,

Offg: DEPUTY DIRECTOR OF THE R. I. MARINE.

To

THE Joint Secretary to the

Government of Madras,

C H E P A U K.

SIR,

L 17 file

With reference to your letter No.4244 dated 6th November 1906, I have the honor to forward herewith a sketch of a Launch 50' X 9' X 6'. Triple Expansion Surface Condensing Engines 6", 10" and 17" / 12" with a Boiler 7'-6" Diameter, 7'-0" long and a working pressure of 160 lbs. which should give the power necessary for the speed required, have been provided for.

2. A Freeboard of 3 feet on a draught of water of 3 feet is somewhat abnormal, and it may be found necessary to reduce this, when the details are being worked out so as to reduce the height of the Centre of Gravity; it may be also necessary to increase the Beam for a somewhat similar reason. These probable alterations or modifications of the present sketch will not affect the cost, which is estimated at about Rs.21,000/- of which sum Rs.13,500/- or £.900 is the cost of the Engines and Boiler, which will have to be obtained from England on Indent to the Secretary of State, which must be forwarded through the Government of Madras, there being no spare funds in the Marine Budget to meet this cost.

3. With reference to the last paragraph of the specification, I beg to point out that the system of construction therein indicated, is weak and unsatisfactory, more particularly in view of the heavy towing work expected from the Launch. In addition to which the possibility of keeping the sections

under a weight of 10 Cwts. is doubtful, and of course the Engines and Boiler will weigh considerably more. It is considered, it will be far more satisfactory for the Launch to be erected here, every part being very carefully marked for re-erection, as has been done on several occasions in the Madras Presidency.

4. The time taken to build and despatch the Launch will depend on the arrival of the Engine and Boiler from England, which can hardly be expected under 6 months from despatch of the Indent, from 2 to 3 months would be required after their arrival.

I have the honor to be,

Sir,

Your Obedient Servant,

[signature]

Captain, R. I. M.,

R. K. B. Offg: Deputy Director, Royal Indian Marine.

No 1913 16.1.07

27

To
The Deputy Director, R.I.M. Dockyard,
Calcutta.

Sir,

With reference to para 2 of your letter No.4487 dated 22nd December 1906 I am directed to point out that the draught was limited not to 3 ft but to 5 ft.

2. With reference to para 3 of your letter, I am to inform you that the launch has to be conveyed by road over 100 miles from the nearest Railway Station, Ammayanayakanur, on the South Indian Railway and of the 100 miles the last 6 are on a ghât road with sharp curves and steep gradients.

(a) It is necessary therefore that the launch should, as far as possible, be capable of conveyance on ordinary country carts.

(b) Again Periyar is an out of the way and feverish place to which all skilled labour has to be imported, and it is therefore desirable to have as little rivetting, etc, to be done at site. It was for this reason that it was proposed to have the sections restricted to ½ a ton. in weight

3. Provided, however, that the conditions (a) and (b) specified above, are fulfilled as far as practicable without interference with the ultimate strength of the hull, the last paragraph of the original specification as regards sections need not be followed.

Special arrangements must necessa-

kp 25 26 cfile

DESPATCHED
DATE 16.1.1907
ENCLOS.........

28

necessarily be made as regards the transport of the boiler and machinery, but this has to be avoided, as far as possible with the rest of the launch.

5 The launch, should, ~~it is request-ed,~~ be completely fitted up and tried under steam and afterwards taken to pieces and numbered for re-erection.

[signature]
12/1/07

[signature]
12/1/07

5 I shall be glad to hear from you how far you can comply with the above conditions & whether it will affect ~~your~~ the plan & estimate forwarded with your No 4487 of 22.12.06.

[initials] A.S.N.
18.1.07

29

No 192
16. 1. 07

P.W.D. Irrigation.

To

The Director,

R.I.M. Dockyard,

Bombay.

Sir,

With reference to your No. 9199 dated 27th December 1906, I am directed to inform you that the launch has to be conveyed by road over 100 miles from the nearest Railway Station, Ammayanayakanur on the South Indian Railway, and of the 100 miles, the last 6 on a ghât road with sharp curves and steep gradients.

(a) It is necessary therefore that the launch should, as far as possible, be capable of conveyance on ordinary country carts.

(b) Again Periyar is an out of the way and feverish place, to which all skilled labour has to be imported, and it is therefore desirable to have as little rivetting etc, to be done at site. It was for this reason that it was proposed to have the sections restricted to half a ton. in weight.

2. Provided, however, that the conditions (a) & (b) specified above are fulfilled, as far as practicable, without interference with the ultimate strength of the hull, the last paragraph of the original specification as regards sections need not be followed. Special arrangements must necessarily be made

as

pp 22. 23 of file

HD

Please return file to SCB after despatch of the letters as C No 7711 of 06 requires a disposal

WSR
12-1-07

as regards the transport of the boiler and machinery, but this has to be avoided as far as possible with the rest of the launch.

3. I shall be glad if you will now favour me with a plan and estimate and detailed specification at your earliest convenience.

4. The launch should, ~~it is requested~~, be completely fitted up and tried under steam at Bombay and afterwards taken to pieces and numbered for re-erection. at Penjaun

T.M.A.H.
12/1/07

VSS
12/1/07

W.Jason
11-1-07

31

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

No 278
21. 1. 07

DESPATCHED
DATE 21.1.1907
ENCLOS.... 2

Memo.

pp 20 C file

With reference to letter No 734C. of 12.12.06 from the Supg: Engr. VI circle, the undersigned has the honour to forward a copy of the marginally noted correspondence with the Directors in charge of the R. I. M. Dockyards at Bombay and Calcutta regarding the supply of a steam-launch required for use on the Periyar lake.

pp 17 C file

1. Letter to the R. I. M. Dockyards at Bombay and Calcutta, No 4244 d 6.11.06 together with specification.
2. Letters from the R. I. M. Dockyards at Bombay and Calcutta Nos 9199/27.12.06 & 4487/22.12.06 — pp 22-23 pp 25-26 C file
3. Letters to the R. I. M. Dockyards at Bombay and Calcutta Nos 192/16.1.07 and 191/16.1.07 — pp 27-28 C file pp 29-30

FWS
18/1/07

SCB

Please say if the Blue print received from the Director R. I. M. Dockyard Calcutta is also to go with the memo.

[illegible]
21/1

Please see note on the margin of the copy of the Calcutta Dockyard's letter going with the memo

To
The Supg. Engr. VI circle.
with papers.

ASN
18.1.07

Stock Form No. 141.
2,000—5-11-06.

PUBLIC WORKS DEPARTMENT.

Irrigation Branch.

32

CURRENT No. 1022

ENCLOSURES. Plans No.
Others No.
Total

Received 190 .
Registered 13. 2. 07 190 .

SPARE COPIES.

Passed on by Registering Clerk ...
" " U. R. Clerk ...
" " Record-keeper ...
" " Drafting Officer ...

Subject.

Steam Launch for Penyar:— Reporting on the two methods for the reconstruction of the —— and stating that a new sketch will be prepared on receipt of E.I's approval.

No. 406

Station Calcutta, *Dated the* 7. 2. 1907.

From (Name) Captain W. Chandler R.I.M.

(Designation) Dy. Dr. of R.I. Marine.

To ~~The Chief Engineer~~ / *The Joint Secretary* *to the Government of Madras,*

Public Works Department,

Irrigation Branch

Sir,

Urgent Paper

4407

1907

JOINT SECRETARY TO GOVERNMENT
13 FEB 1907
P.W.D., IRRIGATION BRANCH.

33

No. 406

R. I. M. DOCKYARD,

Calcutta, 4th February 1907.

FROM

CAPTAIN, W. CHANDLER, R.I.M.,

DEPUTY DIRECTOR OF THE R. I. MARINE.

To

THE Chief Engineer for Irrigation & Joint Secretary to the Government, P.W.D., Irrigation Branch,

MADRAS.

SIR,

pp 27-28 cf

With reference to your letter No.191 dated 16th January 1907, I have the honor to inform you that as the system of reconstruction of the Steam Launch proposed in this Office letter No.4487 of the 22nd December 1906, cannot be entertained owing to the difficulties in the way of obtaining the necessary skilled labour, the two following methods are open to consideration.

pp 25-26 cf

1. Floatable Sections to be put together in the water.
2. Nonfloatable Sections to be put together on the Bank of the lake and launched afterward.

2. With reference to the first proposal, there would be 5 sections of weights 7, 21, 30, 27 and 25 Cwts approximately and the size of the largest of these sections 15½'X 10 feet X 6 feet, which appears to be somewhat too large to put on an ordinary country cart even if the weight were admissible. This system appears to be prohibited by this condition.

3. By adopting the second proposal, the sections could be reduced in length to 6 feet with an average weight of about 12 Cwt. each, each section would have a heavy frame at each end to bolt it to that adjacent, arrangements being made to properly maintain the longitudinal strength. The

34

estimated cost of the Launch, if built in this way, is Rs.25,500/- exclusive of freight. On receipt of approval a new sketch will be prepared.

I have the honor to be,

Sir,

Your Obedient Servant,

Captain, R.I.M.,

R.K.B.

Deputy Director, Royal Indian Marine.

35

St[illegible] Form No. 141.
[illegible]00—6-11-06.

PUBLIC WORKS DEPARTMENT.

Irrigation Branch.

CURRENT No. 2823

ENCLOSURES. { Plans No. 1/4 ; Others No. 1 }
Total 2

Received ..... 190 .
Registered ..... 190 . 18-3-07

SPARE COPIES.

Passed on by Registering Clerk ...
" " U. R. Clerk ...
" " Record-keeper ...
" " Drafting Officer ...

Subject.

Steam Launch for use on the Periyar Lake.

Forwarding plan specifications etc. for a—

No. 1660

Station Bombay, *Dated the* 16 . 3 . 1907

From (Name) The Director of the R. I. M.

(Designation) Dockyard.

To *The Chief Engineer* / *The Joint Secretary* *to the Government of Madras,*
Public Works Department,
Irrigation Branch.

Sir,

Urgent

W office to register
return with papers.

S 1391—1,000-12-05

36

[Form 1.

Heading

It is requested that the above heading, with number and date of this communication may be quoted in any subsequent correspondence on this subject.

R. I. M. DOCKYARD.

No. 1660 Bombay, 16th March 1907.

From

CAPTAIN G. H. HEWETT R.N.,

Director of the Royal Indian Marine;

To

THE JOINT SECRETARY TO THE GOVERNMENT OF MADRAS,

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PP 29+30 ref

Sir,

In compliance with your letter No. 192 dated 16th January 1907, I have the honour to forward herewith an outline sunprint plan and specification for a steel single screw Steam Launch, of the dimensions furnished for use on the Periyar - Lake.

Cancelled with reference to telegram no 158 dated 18-3-07

2. It will be seen from these particulars that the - usual bar keel has been omitted in consequence of the - difficulty that would be experienced in getting it to its - destination and its subsequent riveting up, its omission ---- being compensated for by the introduction of an intercostal keelson which can be sent in parts.

Cancelled

3. The Engines proposed are triple expansion about - $\frac{6'' \; 10'' \; 16''}{10''}$ working at 200 revolutions and a pressure of 160 lb which, it is considered, is as high as will be obtainable - with wood fuel; and the Boiler to ensure this under the same circumstances must be about 7'-3" diameter and 7' long, so that with a hull of only 9 feet beam the boiler will have to be placed before the deck in wake of it is framed.

4.

37

4. The weight of the Engines complete will not be less than $4\frac{1}{2}$ tons, and the Boiler $8\frac{1}{2}$ tons; or a total - weight of about 20 tons with water in boiler and condenser.

5. In the construction of the launch the various parts would be completely riveted up so far as practicable with regard to the difficulties of providing skilled labor at Periyar and the conveyance of the parts from Ammayan-ayakanur to the site of re-erection.

6. Any modifications can be made in the arrangement of the hull and fittings that may be considered necessary.

7. To construct a launch as now proposed, try it under steam, take it to pieces and pack up for despatch will cost roughly Rs. 29,000, including ordinary equipment, or, if the wood work is not supplied, Rs. 26,000. But I think it would be preferable to provide and fit the wood deck, coamings and deck fittings here, as, if there is a difficulty in providing steel workers where the launch is to be assembled, it would be a great advantage to the - erectors to have all the holes in beams, stringers &c., punched or drilled before hand.

8. The launch could probably be constructed in 9 or 10 months, provided compliance with Indent for material - required from England, is not unduly delayed.

Cancelled

I have the honour to be,

Sir,

Your Obedient Servant,

G. H. Hewett

DIRECTOR, ROYAL INDIAN MARINE.

OUTLINE SPECIFICATION FOR A SINGLE SCREW LAUNCH FOR THE P.W.D. MADRAS FOR USE ON PERIYAR LAKE.

OUTLINE SPECIFICATION FOR A SINGLE SCREW LAUNCH

FOR THE P.W.D.MADRAS FOR USE ON PERIYAR LAKE.

&&&&&&&&&&&&&&&&&&&&&&

Dimensions.

Length overall		55' - 3"
--Do-- B. Prs		50' - 0"
Breadth Moulded		9' - 0"
Depth	Top of deck at side to underside of Keel.	7' - 0"
Draft	Forward	3' - 3" } approximately
	Aft	4' - 6" }

General. The hull to be of steel with a well cabin forward and cock pit aft arranged as shown on Sketch.

Stem. To be a flat bar 3" x 1/2".

Stern Post. To be forged from flat bar 4" x 5/8" to the form --- shown on sketch.

Keel Plate. To be 2'- 6" x 3/16" galvanised steel plate.

Frames. To be steel angle $1\frac{1}{2}$" x $1\frac{1}{2}$" x 3/16" spaced 18" apart.

Reverse Frames. To be steel angles $1\frac{1}{4}$ x $1\frac{1}{4}$ x 3/16 worked on every --- frame from gunwale to gunwale & doubled to turn of -- bilge in Engine & Boiler space.

Floor Plates. To be of steel plate 6" x 3/16".

M.L.Intercostal. To be steel plates 8"x 3/16 fitted ~~with~~ intercostally between the frames with 2"x 2"x 3/16" angles worked continuously on the top edge. The angles connecting intercostals to Flat Keel are to be $1\frac{3}{4}$ x $1\frac{3}{4}$ x 3/16" worked alternately on each side of middle line.

40

Side Keelsons. — To be of 3/16" steel plate & 2"x 2"x 1/4" steel angles worked in conjunction with the Engine & Boiler bearers. Before & abaft the machinery spaces 3"x 3" x 5/16" Tee bars may be worked.

Deck Beams. — To be of $1\frac{1}{2}$ x $1\frac{1}{2}$ x 3/16 steel angles fitted on every frame & connected thereto by brackets ---- 6"x 6"x 1/8".

Deck Stringer. — To be $7\frac{1}{2}$"x 1/8" steel plate. The deck before the foremost & abaft the aftermost bulkheads to be plated completely over.

Gunwale Angle. — To be $1\frac{1}{2}$ x $1\frac{1}{2}$ x 3/16" steel angles connected both to sheer --- strake & stringer as shewn on midship section.

Bottom Plating. — Sheer strake to be 3/16" galvanised steel plate the remainder to be 1/8".

Transverse & Coal Bunker Bulkheads. — To be of 1/8" steel plating stiffened with ---- $1\frac{1}{2}$"x $1\frac{1}{2}$"x 3/16" angles.

Engine & Boiler Hatch Coamings. — To be of 1/8" steel plate & angles $1\frac{1}{2}$ x $1\frac{1}{2}$ x 3/16", a handrail to be fitted round hatch as indicated on sketch.

Boiler Bearers. — To be 3/16" steel plate & $1\frac{1}{2}$ x $1\frac{1}{2}$ x 1/4 steel angles.

Engine Bed Plate. — To be of 3/8" steel plate.

Deck Plank. — To be of teak 4"x $1\frac{1}{4}$" the seams to be well caulked & puttied.

Rubber. — To be of teak 4"x $2\frac{1}{2}$".

Rudder.	To be of 3/8" plate stiffened as necessary & hung in the manner shown on sketch.
Awning.	To be of canvas with a centre ridge pole & wire jackstay.
Stanchions.	Awning $1\frac{1}{8}$" diar:, rail 1" diar: tapered as necessary, guard rail to be 5/8" diar:
Deck Fittings.	Hand winch, steering gear, bollards, & fairleads to be fitted as shown on sketch.
Boiler.	A return tube marine type boiler about 7'-3" long by -- 7'- 0" diar: ~~with two furnaces~~ arranged for burning coal or wood & a working pressure of 160 lbs.
Engines.	One set of triple expansion surface condensing -- engines about $\frac{6\frac{1}{8}" \times 10" \times 16"}{10}$
Speed.	It is anticipated with the above engines that the speed required viz:- 10 miles an hour free and 7 miles an hour with a load of 36 tons in tow, will be obtained.

R.W. [illegible]
Chy Cnsltg[illegible]
8/3/07

Pri/13
28240

Telegram 43

Stock Form No. 141.
2,000—5-11-06.

PUBLIC WORKS DEPARTMENT.

Irrigation Branch.

CURRENT No. 2824

ENCLOSURES. { Plans No. / Others No. } 2823

Total ———

Received ... 190 .

Registered ... 190 .

Passed on by Registering Clerk ... 18. 3. 07

" " U. R. Clerk ...

" " Record-keeper ...

" " Drafting Officer ...

Subject.

Requesting to cancel his letter No. 1660 of 16.3.07 re: Steam launch for use on the Periyar Lake.

Tel No. 158

Station Bombay, Dated the 18. 3. 1907

From (Name) ...

(Designation) The Director of the R. I. M.

To The Chief Engineer / The Joint Secretary to the Government of Madras,

Public Works Department,

Irrigation Branch.

Sir,

Urgent

To office Inspector
Return with papers

18.3.07

44

Code Class. } OS

INDIAN TELEGRAPHS.

Monthly Number. } 123

To (Office) Chepauk

From (Office) Bombay

Words.	Day.	Hour.	Minute.	Official Instructions.
16/11	18	13	42	Ofd

To (Person) Madras Irrigation

From* (Person) Director Marine.

158 please cancel my letter 1660. March 16th

CHEPAUK 8 ... 07

Recd. from LN. At Hrs. Mts. by

Sent to LN. At Hrs. Mts. by

Telegraph Master

* In foreign telegrams the *Person from*, if telegraphed, should be written after, but separated from the text.

32 Word Form.

T. 14.

45

Stock Form No. 141.
2,000—5-11-06.

PUBLIC WORKS DEPARTMENT.

Irrigation Branch.

CURRENT No. 3224

ENCLOSURES. { Plans No. / Others No. }

Total ———

SPARE COPIES.

Received } 28. 3 - 1907.
Registered } 28. 3 - 1907.

Passed on by Registering Clerk ... } 28.3.07
" " U. R. Clerk ...
" " Record-keeper ...
" " Drafting Officer ...

Subject.

Steam launch in the Periyar lake

Forwards an outline sunprint plan & specification for a steel single screw—

No. 2399

Station Bombay, Dated the 25th March 1907

From (Name) Captain G. H. Hewett R.N.

(Designation) Director of the Royal Indian Marine

To ~~The Chief Engineer~~ The Joint Secretary to the Government of Madras,

Public Works Department,

Irrigation Branch.

vide R 50/07

Sir,

W[illegible] [illegible]

[illegible] 27/3/07

[illegible]

S 1591—1,000-12-05

Heading

[Form 1.

46

It is requested that the above heading, with number and date of this communication, may be quoted in any subsequent correspondence on this subject.

No. 2399

R. I. M. DOCKYARD:

Bombay 25th March 1907

From

CAPTAIN G. H. HEWETT, R. N.,

Director of the Royal Indian Marine;

To

THE JOINT SECRETARY TO THE GOVERNMENT OF MADRAS,

PUBLIC WORKS DEPARTMENT.

IRRIGATION BRANCH.

Sir,

In compliance with your letter No. 192, dated 16th January 1907, and with reference to my telegram No. 158, dated 13th March 1907, I have the honor to forward herewith an outline sunprint plan and specification for a steel single screw Steam Launch, of the dimensions furnished for use in the Periyar Lake.

2. It will be seen from these particulars that the usual bar keel has been omitted in consequence of the difficulty that would be experienced in getting it to its destination and its subsequent riveting up, its omission being compensated for by the introduction of an intercostal keelson which can be sent in parts.

3. The Engines proposed are triple expansion about $\frac{6'' \; 10'' \; 16''}{10''}$ working at 200 revolutions and a pressure of 160 lbs. which, it is considered, is as high as will be obtainable with wood fuel; and the Boiler to ensure this under the same circumstances must be about 7'-3" diameter and 7' long, so that with a hull of only 9 feet beam the boiler will have to be placed before the deck in wake of it is framed.

4.

4. The weight of the Engines complete will not be less than 4½ tons, and the boiler 8½ tons; or a total weight of abo 20 tons with water in boiler and condenser.

5. In the construction of the launch the various parts would be completely riveted up so far as practicable with - regard to the difficulties of providing skilled labor at - Periyar and the conveyance of the parts from Ammayanayakanur to the site of re-erection.

6. Any modification can be made in the arrangement of the hull and fittings that may be considered necessary.

7. To construct a launch as now proposed, fit the - machinery on board as necessary, take it to pieces and pack up for despatch will cost roughly Rs. 29,000, including --. ordinary equipment or if the wood work is not supplied ---- Rs. 26,000. It would be a difficult and expensive job of doubtful utility to complete the launch sufficiently to admit of her running a steam trial and then to take it to pieces - again; but I think it would be preferable to provide and fit the wood deck, coamings and deck fittings here, as, if there is a difficulty in providing steel workers where the launch is to be assembled, it would be a great advantage to the -- erectors to have all the holes in beams, stringers &c., -- punched or drilled before hand.

8. The launch could probably be constructed in 9 or 10 months, provided compliance with Indent for material required from England, is not unduly delayed.

I have the honor to be,

Sir,

Your Obedient Servant,

G. H. Hewett

DIRECTOR, ROYAL INDIAN MARINE.

No 1603
29-4-07

To

The Deputy Director

R. I. M. Dockyard

Calcutta

PAGE 48

Page 33 of C file

DESPATCHED
DATE 29.4.1907
ENCLOS.........

Sir,

With reference to para 3 of your letter No.406 dated 7th February 1907 I am directed to state that the 2nd method proposed by you may be adopted viz.of putting together the non-floatable sections of the launch on the shore of the Periyar lake and - floating it in the lake afterwards I am also directed to enquire whether the stern cockpit may be converted into a galley fitted with a stove suitable for cooking in and that the ~~fore~~ fore cabin may be made ~~to have~~ more spacious if possible. It is presumed that the price of Rs.25,500 quoted includes all wood work and that the whole launch will be fitted together and the parts numbered before despatch from Calcutta. The favour of an early reply is solicited.

[signature]
25/4/07.

[initials]
24-4-07

Stock Form No. 141
10.000—29-6-06.

PUBLIC WORKS DEPARTMENT. PAGE 49

CURRENT No. 3162 ~~278 CF~~

Received 20-5-1907.

Registered ......190 .

ENCLOSURES. Plans No. -
Others No. -
Total

Passed on by Registering Clerk ...
" " U. R. Clerk ...
" " Referencer ...
" " Record Superintendent.
" " Drafting Officer ...

SPARE COPIES.

Subject

New launch Periyar lake
Requesting that arrangements may be made for constructing

Recd 20/5/07

No. 278 C.F

Station, Trichinopoly. *Dated the* 15 May 1907.

From (Name) C. W. Wood Esquire,

(Designation) Superintending Engineer, VI Circle

To *The Chief Engineer* for Irrigation ~~*The Secretary*~~ *to the Government of Madras,*

Public Works Department.

Urgent

Papers

Sir,

P.319 CF

I have the honour to invite attention to the correspondence ending with your memo. number 278 dated 21st January 1907 regarding the construction of a new launch for the Periyar lake and to request that you will be so good as to inform me of the result of your correspondence with the officers in charge of the Government Dockyard at Bombay and Calcutta.

S. C.B. after despatch

51

Enclo: 2

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

No 1997 D/ 27-5-07

Memo.

With reference to letter No. 278 d 15.5.07 of the Supg Engineer, VI Circle, the undersigned has the honour to forward for his information copies of the marginally noted correspondence regarding the new launch for the Periyar Lake.

Lett. from the Director R.I.M. Docks ~~Bombay~~ Calcutta No 406 d 7.2.07

" to " " No. 1603 d 29.4.07

23/5.

To

The Supg Engineer VI Circle

msw 22.5.07

22.5.07

Desp'd 27.5.07

P. W. No. 29
5,000—6-7-06.

PUBLIC WORKS DEPARTMENT.

CURRENT No. 5022

ENCLOSURES. Plans No. 1
Others No. —
Total 1

Received .... 190 }
Registered .... 190 } 30-5-07

Passed on by Registering Clerk ...
" " U. R. Clerk ...
" " Referencer ...
" " Record Superintendent.
" " Drafting Officer ...

SPARE COPIES.

Subject

Steam launch for use in the Periyar lake

Gives in brief the several parts of the — and states that the estimated Rs 25000 excludes the cost of freight & re-erection at the destination

---

No. 1607

Station Calcutta, Dated the 22 · 5 · 1907.

From (Name) Dy Director of the Royal
(Designation) Indian Marine.

To The Chief Engineer / The Secretary to the Government of Madras,
Public Works Department,

Sir,

53

No. 1604

R. I. M. DOCKYARD,
Calcutta, 22nd May 1907.

FROM

CAPTAIN, W. CHANDLER, R.I.M.,
DEPUTY DIRECTOR OF THE R. I. MARINE.

To

THE Joint Secretary to the
Government of Madras, P.W. (Irrigation)
Department, Ootacamund.

SIR,

With reference to your letter No. 1603 dated the 29th April 1907, I have the honor to enclose herewith a sketch of a Launch for use in the Periyar Lake, and to state there is room aft for an European and a Native Stove which have been shewn on the plan of the deck.

The Forward Cabin cannot be enlarged without cutting down the coal Bunker accommodation which scarcely appears advisable.

The numbers I.2.&c., below the base line of the Profile shew the points of division of the eight parts into which it is proposed to divide the Hull.

The Estimate of Rupees 25,500/- includes the building and complete erection of the launch in Calcutta including all wood work but does not include the cost of freight to destination or reerection there.

I have the honor to be,
Sir,
Your Obedient Servant,
W. Chandler
Captain, R.I.M.,

57

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

No. 2127

Memo.

In forwarding the two designs received from the Calcutta and Bombay dockyards for the proposed launch for the Periyar lake, the Chief Engineer for Irrgn has the honour to request that the Supg: Engineer, 6th Circle, will be so good as to state, if he can see any superiority in the latter design, which is estimated to cost Rs 29,000 against Rs 25,500 that the cost of ~~the other~~ from Calcutta.

[signature]

4/6/07

S-CB

Please see what accompaniments ... drawings.

[initials] 6/6/07

DESPATCHED
DATE 6/6/1907
ENCLOS............

Enclos: –

Copy of Letter from Bombay Dockyard No. 2399 d. 25th March 1907 with Copy of Specification & alterations of 8-3-07 to the letter

" " " Calcutta Dockyard No. 1607 dated 22 May 1907 (with sketch to be returned)

Make for perusal

[initials] 6/6/07

Please take 2 copies of the letters referred to in the memo.

[initials] 6/6/07

to The Supg: Engineer
6th Circle

[initials] 3.6.07

H.D. ... copies ... 6/6/07

INDEXED.

55

Stock Form No. 141
10,000-29-6-05.

PUBLIC WORKS DEPARTMENT.

CURRENT No. 3946

ENCLOSURES. Plans No. 2
2 blue prints Others No. "
Total 2

SPARE COPIES.

Received 26-6-1907.
Registered " 190 .

Passed on by Registering Clerk ...
" " U. R. Clerk ...
" " Referencer ...
" " Record Superintendent.
" " Drafting Officer ...

Subject.

Proposed launch for the irrigation
prefers the design marked No 2 for the —

No. 335CE

Station, Trichinopoly. *Dated the* 18th June 190 .

From (Name) C. W. W O O D Esquire.,

(Designation) Superintending Engineer, VI Circle.

To The Chief Engineer for Irrigation, ~~The Secretary~~ *to the Government of Madras,*

Public Works Department.

Sir,

With reference to your No.2127 dated 6th June 1907, I have the honour to state that I prefer the design marked No.2 on account of the more spacious accommodation -- provided both in the fore cabin and the after cock pit.

I have the honour to be,

Sir,

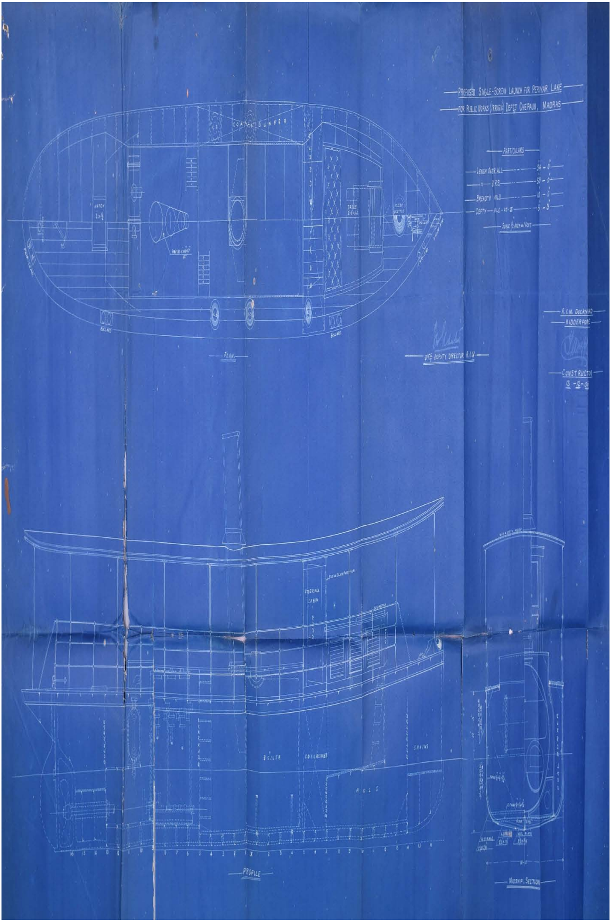
Your most obedient servant,

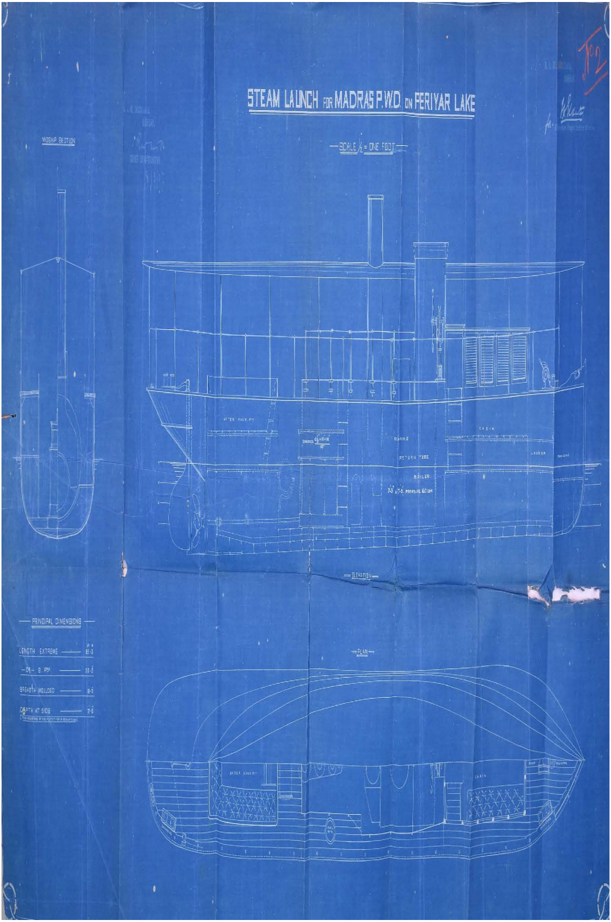
C. W. Wood

Supdg: Engineer, VI Circle.

Papers ought to be here

20/6


PROPOSED SINGLE-SCREW LAUNCH FOR PERIYAR LAKE
FOR PUBLIC WORKS (IRRIGN) DEPT CHEPAUK, MADRAS
PARTICULARS
LENGTH OVER ALL — 54 - 0
" — B.P.S. — 50 - 0
BREADTH MLD — 10 - 0
DEPTH — MLD - AT - ⊗ — 6 - 3
SCALE ½ INCH = 1 FOOT
COAL BUNKER
HATCH
BOLLARD
BOLLARD
PLAN
OFFG DEPUTY DIRECTOR R.I.N.
R.I.M. DOCKYARD
KIDDERPORE
CONSTRUCTOR
13 - 12 - 06
STEERING CABIN
BOILER
COAL BUNKER
CHAINS
HOLD
PROFILE
COAL BUNKER
MIDSHIP, SECTION


STEAM LAUNCH FOR MADRAS P.W.D. ON PERIYAR LAKE
SCALE ½ = ONE FOOT
MIDSHIP SECTION
MARINE
RETURN TUBE
BOILER
CABIN
ELEVATION
PLAN
PRINCIPAL DIMENSIONS
LENGTH EXTREME 55-3
— D° — B. P.ˢ 50-0
BREADTH MOULDED 9-0
DEPTH AT SIDE 7-0

I. Form No. 1.

Steam launch required for use on the Periyar lake.

CURRENT No. 635
PASSED ON BY
PUBLIC WORKS DEPARTMENT, 4
R. C.
IRRIGATION BRANCH.
U. R. C. 1-10-07
REF.
P. E.
D. O.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ again the following

Flag E — G.O. No. 860-I dated 11th August 1904.

D — G.O. No. 12-I dated 5th January 1906

R — G.O. No. 137-I dated 5th February 1906

Read also the following:-

From the Supg. Engineer, VI Circle, No. 362 C.E. dated 25th June 1906

To the --------do---------------------2491 dated 14th July 1906

From the ---------do-------------------434 C.E. dated 26th July 1906

To the -----do--------------------------- 2907 dated 9th August 1906

From the Genl Supdt. P.W. Workshops No. W/16 E.I. dated 17th September06

To the Supg. Engineer, VI Circle, No. 3712 dated 8th October 1906

From the -------do------------------ 587 C.E. dated 10th October 1906

From the ---------do------------------594 C.E. dated 12th October 1906

To the ------------do------------------- 4016 dated 26th October 1906

To the Director, R.I.M. Dockyard, Bombay and Calcutta No. 4244 dated 6th November 1906

From the Supg. Engineer, VI Circle, No. 734 C.E. dated 12th December 1906

From the Director, R.I.M. Bombay No. 9199 dated 27th December 1906

From the Director, R.I. Calcutta No. 4487 dated 22nd December 1906

To the Director R.I.M. Calcutta No. 191 dated 16th January 1907

To the Director, R.I. Bombay, No. 192 dated 16th January 1907

To the Supg. Engineer, VI Circle, No. 278 dated 21st January 1907

From the Director, R.I.M. Calcutta No. 406 dated 7th February 1907

Telegram from the R.I. Bombay dated 18th March 1907 No. 158

From the -------------do------------ 2399 dated 25th March 1907

To the Director, R.I.M. Calcutta No. 1603 dated 29th April 1907

From the Supg. Engineer, VI Circle, No. 278 C.E. dated 15th May 1907

To the -----------do------------------- 1997 dated 27th May 1907

From the ~~Director, R.I.M. Calcutta No.~~ 1607 dated 22nd May 1907

To the Supg. Engineer, VI Circle, No. 2127 dated 6th June 1907

From the Supg. Engineer, VI Circle, No. 335 C.E. dated 18th June 1907

Classified abstract estimate amtg to Rs 27500

Note

Print Note

2/

Note by the Chief Engineer
for Irrigation.

2-8

The papers quoted above relate to the proposed purchase of a new steam launch required for use on the Periyar lake.

2. There are at present two launches in use in the lake:- viz(1) the -- "Daisy" and (2) the "Resurrection" The first of these was placed under repair the repair consisting of sheathing the hull with planking, the plates of the old hull having been practically worn out. Besides from the report dated 26th May 1905 of the Inspector of Steam boilers and prime movers, it was understood that the boiler would not last more than about 2 years and might show further signs of weakness at any time. It was therefore decided to make use of her in future for the purpose of towing boats carrying materials for the new right bank escape regulator. The other launch "The Resurrection" as her name implies, was built up locally and fitted with old machinery and was found unable to make headway against a strong -- breeze. The General Supdt.P.W Workshops, on a recent inspection, reported that it was not worth while attempting to repair it. In the above circumstances both the launches having been found - useless, the Supg.Engr, VI Circle, stated in his letter No.362 C.E.dated 25-6-06 that

Proly Dengo. 120/5/06

pp 8-9 c file

pp 1-3 c file

3

that a new steamer was very necessary not only to accelerate the work of transporting the material required fo the construction of the Right Bank escape, but also to provide the lake Superintendent and staff with speedy means of reaching the new regulator. As firewood was easily obtainable at Periyar, he proposed to obtain a new steam launch. The Chief Engineer for Irrigation having approved of the abov proposals, enquiries were made of the R.I.M. Dockyards at Bombay and Calcutta if they could supply a launch in accor ance with the specification furnished to them.

3. ~~The Dy Director R.I.M. Calcutta estimated the construction of a launch at Rs.25,000~~. In reply designs and estimates have been received for launches including cost of all wood-work, that from Bombay being for Rs. 29,000 and that from Calcutta, Rs.25,50 both designs provide for the special difficulties apprehended in transport of the launches to their destination and want of skilled labour for rivetti up.

pp 46-47 c/file
pp 33-34 c/f

then

p 55 ct. file

4. The Supg. Engineer, VI Circle, to whom the designs were forwarded prefer the design of the Bombay dockyard cost-ing Rs.29,000 to that of Calcutta on account of the more spacious accommoda-tion provided in the former, both in th forecabin and the after cock-pit. The

4

4.P

The Chief Engineer for Irrigation does not however consider that the extra accommodation provided is worth the additional cost of Rs.3,500 and recommends that the design prepared by the R.I.M. Dockyard, Calcutta, be approved and the launch obtained therefrom. An estimate amounting to Rs.27,500 has been prepared in this office for the new launch so as to include the charges for freight and re-erection at the Periyar lake, which it is recommended may be approved and forwarded to the Government of India for sanction.

attached to this

ORDER Press No 3139 of 11-7-07

The recommendations of the Chief Engineer for Irrigation are accepted andthe estimate amounting to Rs.27,500 submitted by him for the purchase of a new steam launch for the Periyar lake is approved and will be forwarded to the Govt.of India for sanction.

2. The Dy.Director R.I.M.Calcutta will be informed that the design of the launch forwarded with his letter No. 1607 dated 22nd May 1907 is approved and that necessary orders for its construction will be issued on receipt of the sanction of the Govt.of India to the estimate.

p 53 of file

3. The following letters will be sent (H.E.Nos.3141 dated 11-7-07

To

The Secretary to the Govt.of India P.W.D.

To the Chief Engr. for Irrgn.
" Supg. Engineer VI circle
" Examiner P.W. Account

DESPATCHED
1 AUG 1907

5

5.8

Sir,

I am directed to forward for the sanction of the Government of India the accompanying plan, specification and estimate amounting to Rs.27,500 for the construction of a new steam launch required for use on the Periyar lake.

2. There are at present 2 launches in use viz.(1) the "Daisy" and (2) the "Resurrection"

Of these the first, which was obtained from England so long ago as 1888, was inspected by the Inspector of Steam Boilers and prime movers in May 1905 and his report, a copy of which is enclosed, will show that the boiler will not last at any rate for more than two years. The other launch, the "Resurrection" as may be gathered from her name, was built locally and fitted with old machinery and the General Supdt., who lately inspected her has condemned her as unsafe and stated that it is not worth while attempting to repair her. The new conditions of the Periyar lake whereby the regulation of the flood discharge is dependent upon the working of a large set of sluices -- render it imperative that a certain and speedy means of locomotion should be available and the only possible one is a good launch, the approach being some seven miles of water.

3 Having regard to the resolution of the Govt. of India No.455 M dated 30th December

Reg D in Go 120 / 5.1.06

Reg W

6

6.8

December 1890, quotations were called for from the R.I.M.Dockyards at Bombay and Calcutta and after duly considering the designs submitted by both, it has been decided to get the launch from the Calcutta dockyard on the design shown in the blue print herewith forwarded which is considerably the cheaper of the two

4. I am to request that early sanction to the estimate may be given by wire to enable this Government to place the order with the Calcutta Dockyard as the launch is very urgently required.

No 3159 of 11-7-07

Docts.Accompg.
Copy of Boiler Inspector's report
Estimate
1 Blue print
1 specification.

DESPATCHED
11 JUL 1907
Sp Co despd 2-8-07
p 53 c file

To the Deputy Director
R. I. M. Calcutta

Sir,

With the reference to the correspondence ending with your letter No.1607 dated 22nd May 1907, I am directed to state that the design of the steam launch required for use in the Periyar lake forwarded therewith, is approved and that necessary orders for its construction will be placed with you on receipt of the sanction of the Govt.of India to an estimate forwarded to them for the purpose.

E.I

Please sign the copy kept below.

TWeff
D.I.
5/7/07

HL 5/7/07
I

Issue urgently

DESPATCHED
11 JUL 1907
S.C. despd 2.8.07

Please see ... TWR

ESTIMATE [illegible] .M.— Abstract— Classified. 7 M

head.	Names of Works.	Amount of Estimate for individual Works.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each Main head.	Remarks.
1	2	3	4	5	6	7
	Imperial					
	Capital Expenditure not charged to Revenue					
	49. Irrigation					
	Periyar Project					
	Madura division					
	Open Capital Account					
	3. Tools and plant					
	4. Navigation plant					
	Unremunerative work					
	Steam launch required for use on the Periyar lake as per design and specification forwarded with letter No 1607 dated 22nd May '07 of the Director, R. I. M. Calcutta.				Rs. 25,500	
	Freight				1000	[illegible] 22 [illegible]
	Miscellaneous charges				1000	
	Total				27,500	

STATION, Ootacamund
Dated 5th July 1907.

5,000—12-12-01.

[illegible signature]

[illegible signature]
Chief ~~Executive~~ Engineer.
for Irrigation

(E. No.

—————— CIRCLE.

DIVISION—

DISTRICT—

ESTIMATE FORM.—Abstract—Classified

To accompany the Detailed Estimate No.

of 190 -190 for *

* Here enter the Name and Description of work in full.

टां—1—20